User manual

EQUINOX

ENGLISH

RAYS STROBES

(SF-300/SF-300D)

Version 1.0

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If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

Read the manual

Indoor use only

This symbol indicating separate collection for electrical and electronic equipment

Warning!

This product involves electric voltage, chemicals, glass, etc. Observe safety precautions.

- Disconnect mains power supply before removing glass plate or servicing.
- Let unit cool before handling. Keep away from liquids and flammables.
- Do not mount on flammable surface. Keep distance of 30 cm to illuminated surface.
- Keep distance of one meter between this product and other electrical products.
- Do not look directly at lamp flash. Avoid direct skin exposure.
- Strobe tubes contain poisonous chemicals. Discard used strobe tubes appropriately. Keep out of reach of children and animals.
- This appliance must be earthed (grounded). Secure front cover before connecting to mains power supply.
- Keep air vents clear to avoid overheating. Product contains no user serviceable parts. Refer servicing to qualified technicians only.

Important

This apparatus is fitted with a **BS 1363 13**Amp plug, fitted with a **BS 1362 5A** fuse. Replace the fuse with same rating.

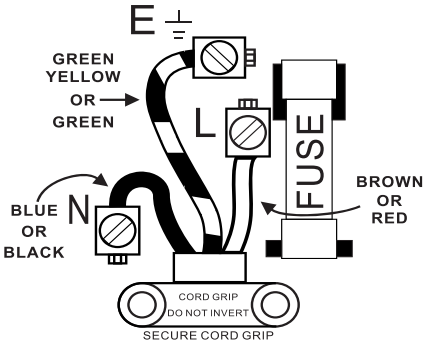
The wires in the mains lead are colored in accordance with the following code:

BLUE----"NEUTRAL" (**N**)

BROWN----"LIVE" (**L**)

GREEN----"EARTHED" (**E**)

1. The blue wire must be connected to the terminal, which is marked with the letter "**N**" or colored **BLACK**.
2. The brown wire must be connected to the terminal, which is marked with the letter "**L**" or colored **RED**.
3. The green wire must be connected to the terminal, which is marked with the letter "**E**" or colored **GREEN**.



Rays Strobe (SF-300/SF-300D)

Rays Strobe is an indispensable standard accessory for medium and large ballrooms. With I-type xenon lamp, Rays Strobe can emit a 300 watt powerful flashes by a flashing rate of 1-18 times per second. Synchronous control can be achieved with input of analog signal. The unprecedented design of elegant streamline profile greatly attracts the public. Freewheeling adjustment function of flashing rate and powerfully rapid flashes excites the atmosphere. Rays Strobe can be of analogical control or of DMX signal control. For SF-300, it can be used either with the one-channel strobe controller (SF-01CX) or with the four-channel strobe controller (SF-34CX) to control the flashing rate. For SF-300D, it can be used with different kinds of DMX controllers for programming, or be used with DS-1 simple digital controller to provide simple operation mode that saves a lot of time.

Features

SF-300

- Manual or remote (analog) control Speed.
- Attractive, heat dissipating case.
- Precision engineering, components.
- Long-life strobe tube.

SF-300D

- DMX512 control Speed.
- Manual control Speed.
- Thermal safety switch.
- Attractive, heat dissipating case.
- Precision engineering, components.
- Long-life strobe tube.

Inspection

Every Rays Strobe (SF-300/300D) is thoroughly tested at the factory and shipped in perfect condition. Please notify your dealer immediately if damage occurred during shipping.

Setting Up

Rays Strobe (SF-300/300D) is shipped complete, ready to use. The bracket is installed before shipping, the unit can be hung in any position. Simply use a 20kg rated or stronger C clamp to attach the bracket to firm trussing. Allow enough space on all sides for proper cooling.

Manual Control Operation

SF-300

1. Plug strobe power cord into appropriate mains power supply.
2. Turn the flash speed knob (See figure 1) on unit back to adjust the flash speed.

SF-300D (All Dip 1-9 "OFF")

1. Plug strobe power cord into appropriate mains power supply.
2. Turn the flash speed knob (See figure 2) on unit back to adjust the flash speed.

Remote Control Operation SF-300

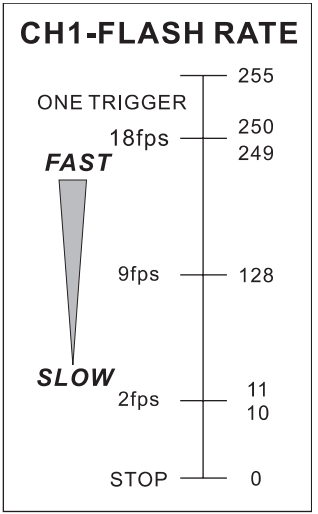
For best result, use SF-01CX or SF-34CX controllers. Abide by controller user manual specifications regarding the number of strobes that can be linked to one controller.

1. Plug one end of a mono (not stereo) microphone signal cable with standard 1/4-inch mono microphone jacks (4 of figure 1) into the signal input connector on back of unit. Plug the other end of the cable into the signal output socket on the controller.
2. If desired, connect another strobe: Plug one end of another signal cable in to the signal output socket (4 of figure 1) on the back of the first strobe; plug the other end of the signal cable to the signal input socket on the back of the second strobe. Follow the same procedure to link more strobes, if desired.
3. Set all strobe manual control knobs to the OFF (no flash) position.
4. Refer to your strobe controller user manual for operating.

DMX Control Operation SF-300D (Any of DMX Dip 1-9 "ON")

Use DMX Dip switches 1-9 to set the unit to the desired DMX512 address. Refer to the DMX chart in Appendix-1.

1. Connect the DMX 512 controller cable to the input socket (6 of figure 2) of the strobe unit. Make sure the signal cable polarity is correct. Connect power lines. Your SF-300D is now ready for operation with your DMX controller.
2. To use single trigger: go to "STOP" first, then to "TRIGGER", one flash results. Do the same process repeatedly for repeated single flash.



Troubleshooting

Rays Strobes (SF-300/300D) are designed for years of trouble-free use. However, incorrect voltage, power surges, or other mishaps cause equipment failure. If such problems do occur, always refer servicing to qualified technicians.

SF-300

- Problem: The strobe doesn't flash on manual control.

Solution:

- Check power connections. Plug the mains power cord into proper power supply socket.
- Check fuse, replace fuse only with the same type and size. Retry strobe flash under manual control.
- Lamp may be broken, replace the lamp. If not, electronic component (triac or trigger coil) may need replacing. Refer servicing to a qualified technician.

-Problem: The strobe doesn't flash on remote control.

Solution:

- Disconnect remote control cable. Test strobe under manual control. Follow instruction above.
- If strobe flashes in manual control but not under remote control, replace the signal cable. Use a cable that has worked properly with other strobes.

If strobe still doesn't flash under remote control, check to see if other strobes operate properly with this controller. Refer servicing of strobe and controller to a qualified technician.

SF-300D

-Problem: Strobe does not flash when it should.

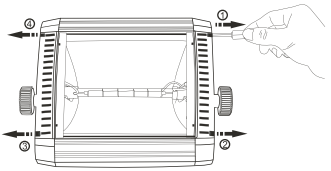
Solution:

- Check DMX signal. Is the DMX dip switch setting correct?
- Get a working DMX strobe and signal cable. Link properly to controller. Test. If this strobe flashes properly, the first strobe is malfunctioning.
- Check fuse, replace fuse only with the same type and size. Retry strobe flash under manual control.

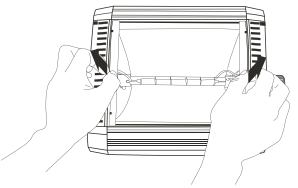
Lamp Replacement

- Before opening unit covers, make sure that the unit is cool and not connected to power source.
- Install/replace bulb (ST-300).
  DO NOT TOUCH GLASS WITH BARE HANDS.
  If you do touch the glass with bare hands, clean it with alcohol using a cotton ball or soft cloth.

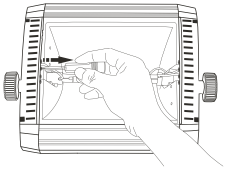
❶ Unscrew the side panels.



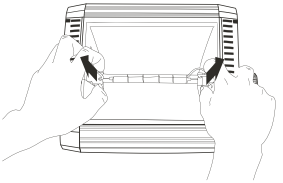
❷ Hold the metallic pieces at both sides of the safety glass and pull up.



❸ Unscrew the cable of the tube from the terminal.

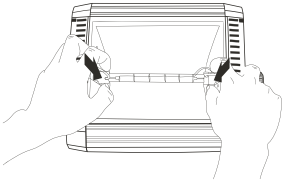


❹ Hold the ends of the tube and take it off from the tube clip.

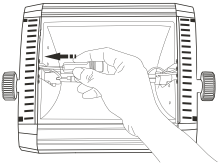


Lamp Replacement

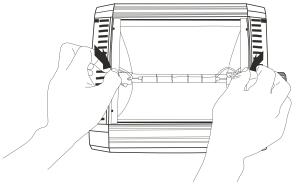
❺ Replace with a new tube.



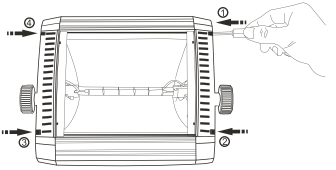
❻ Screw the cable of the tube on the terminal.



❼ Put the safety glass back.

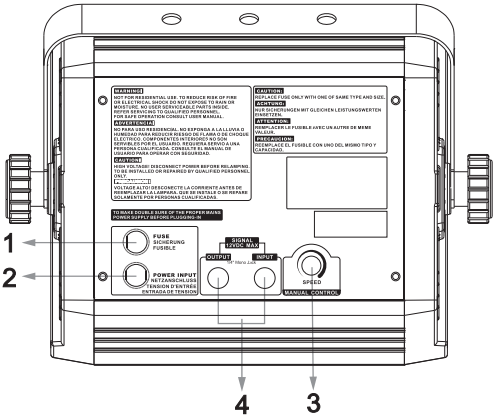


❽ Screw the side panels.



NOTE:
Strobe tubes should be replaced by qualified technicians only.

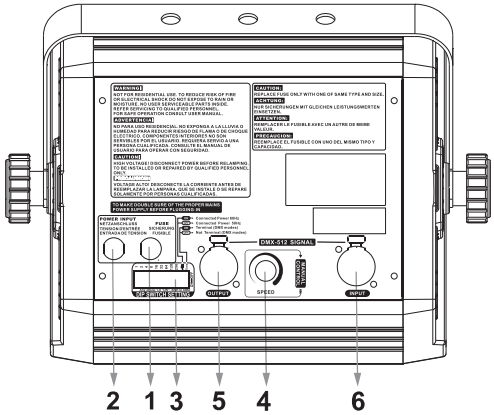
Figure 1 SF-300 Functions


WARNING!
NOT FOR RESIDENTIAL USE. TO REDUCE RISK OF FIRE OR ELECTRICAL SHOCK DO NOT EXPOSE TO RAIN OR MOISTURE. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL. FOR SAFE OPERATION CONSULT USER MANUAL.
AVERTISSEMENT
NE PAS UTILISER RÉSIDENCIAL. NE EXPONGA A LA LLUVIA O HUMEDAD PARA REDUCIR EL RIESGO DE INCENDIO O CHOQUE ELÉCTRICO. COMPONENTES INTERIORES NO SON SERVIBLES POR EL USUARIO. REQUIERA SERVICIO A UNA PERSONAL CALIFICADO. CONSULTE EL MANUAL DE USUARIO PARA OPERAR CON SEGURIDAD.
CAUTION!
HIGH VOLTAGE! DISCONNECT POWER BEFORE RELAMPING. TO BE INSTALLED OR REPAIRED BY QUALIFIED PERSONNEL ONLY.
VOLTAGE ALTO! DESCONECTE LA CORRIENTE ANTES DE REMPLAZAR LA LAMPARA. PARA SER INSTALADO O SE REPARE SOLAMENTE POR PERSONAL CUALIFICADAS.
CAUTION!
REPLACE FUSE ONLY WITH ONE OF SAME TYPE AND SIZE.
ACHTUNG
NUR SICHERUNGEN MIT GLEICHEN LEISTUNGSWERTEN ERSETZEN.
ATTENTION
REMPLACER LE FUSIBLE AVEC UN AUTRE DE MEME VALEUR.
ATENCIÓN!
REEMPLACE EL FUSIBLE CON UNO DEL MISMO TIPO Y CAPACIDAD.
TO MAKE DOUBLE SURE OF THE PROPER MAINS POWER SUPPLY, BEFORE PLUGGING IN
FUSE
SICHERUNG
FUSIBLE
POWER INPUT
NETZANSCHLUSS
TENSION D'ENTRÉE
ENTRADA DE TENSION
SIGNAL
3.5VDC MAX
OUTPUT
INPUT
SPEED
MANUAL CONTROL
1
2
4
3

1. Fuse, replace fuse only with the same type and size.
2. Power Input, to make double sure of the proper mains power supply before plugging.
3. Speed Control (1-18 flashes per second).
4. Signal jacks

To run units synchronously, connect SF-01CX or SF-34CX controller to the strobe light using a 1/4" mono cable, and use the second signal jack to connect to additional units using 1/4" mono cables.

Figure 2 SF-300D Functions



1. Fuse, replace fuse only with the same type and size.
2. Power Input, to make double sure of the proper main power supply before plugging.
3. DMX and Function dip switch.
4. Speed control (1-18 flashes per second).
5. DMX 3 pin XLR output.
6. DMX 3 pin XLR input.

Appendix-1 DMX Dip Switch Value Guide

This is a brief guide to DMX dip switch value settings. DMX products must have their own "address" to receive DMX signals. Addresses on SF-300D are set by flipping appropriate DMX dip switches.

To do this, you need to know the DMX dip switches have the following values: #1=1; #2=2; #3=4; #4=8; #5=16; #6=32; #7=64; #8=128; #9=256. And you need to know that DMX address settings are the sum of the dip switch values.

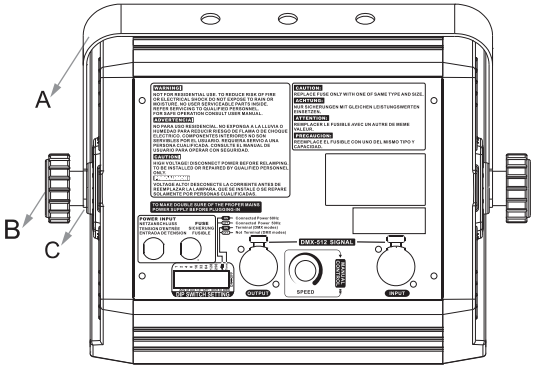
For example, standard DMX addresses for four ST-300D, each of which has one channel (see page 5), follow:

	Address Value	**DMX Dip Switches "ON"**
Unit 1	1	#1
Unit 2	2	#2
Unit 3	3	#1 & #2
Unit 4	4	#3

Explanation: Since each unit has one channel, each address advances one values (see address value above).

Once address values are figured out, add DMX dip switch values to obtain the appropriate address (Any of Dip 1-9 "ON") for each unit. Flip appropriate DMX dip switches on each unit.

Hanging-Bracket Installation (SF-300/300D)



A: Bracket B: Bracket Knob C: Washer

Product Specifications

Model	SF-300	SF-300D
Lamp	ST-300	ST-300
Flash Rate	1~18 fps	1~18 fps
Signal Connector	1/4" (6.35mm) mono microphone jack	3 Pin XLR
Control Mode	0-10V DC trigger	01CH, DMX 512 signal
Dimension (LxWxH)	278x140x220	278x140x220
Weight	1.96kg	2.11kg
Applicable Voltages	100V 50/60Hz or 120V/60Hz or 230V,240V/50Hz	100V 50/60Hz or 120V/60Hz or 230V,240V/50Hz
Fuse(100V,120V)	T10A/250V	T10A/250V
Fuse(230V)	T3.15A/250V	T3.15A/250V
Pulse Power Consumption	300W	300W